AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application:

**LISTING OF CLAIMS:** 

Claims 1-6 (Canceled).

Claim 7 (Currently Amended): A method for preventing or treating skin

diseases, which comprises administering to a subject in need thereof an effective

amount of an isolated EC SOD protein or an expression vector comprising a

polynucleotide encoding the EC SOD protein, wherein the EC SOD protein

comprises an amino acid sequence of SEQ ID NO: 11, wherein the skin diseases

are selected from the group consisting of skin cancer, pigmentation disease,

photoaging, atopy, urticaria and allergy.

Claim 8 (Canceled).

Claim 9 (Withdrawn): A pharmaceutical composition for preventing or

treating skin diseases, which comprises as an active ingredient a cell-transducing

EC SOD fusion protein in which a protein transduction domain is fused to either an

isolated EC SOD protein or a protein exhibiting substantially equivalent physiological

activity to the EC SOD protein and having at least 60% sequence homology to amino

acid sequence of the EC SOD protein.

Claim 10 (Withdrawn): A pharmaceutical composition for preventing or

treating skin diseases, which comprises as an active ingredient an expression vector

comprising a polynucleotide sequence encoding a cell-transducing EC SOD fusion

protein in which a protein transduction domain is fused to either an isolated EC SOD

protein or a protein exhibiting substantially equivalent physiological activity to the EC

SOD protein and having at least 60% sequence homology to amino acid sequence

of the EC SOD protein.

Claim 11 (Withdrawn): The pharmaceutical composition of claim 9, wherein

the protein transduction domain is selected from the group consisting of a HIV-1 Tat

transduction domain, an oligopeptide consisting of 5-12 arginine residues, an

oligopeptide consisting of 5-12 lysine residues, a PEP-1 peptide, an ANTP protein

and a VP22 protein.

Claim 12 (Withdrawn): The pharmaceutical composition of claim 9, wherein

the skin diseases are selected from the group consisting of skin cancer,

pigmentation disease, photoaging, dermatitis, psoriasis, atopy, urticaria and allergy.

Claim 13 (Withdrawn): A cosmetic composition for preventing or improving

skin diseases, which comprises as an active ingredient a cell-transducing EC SOD

fusion protein in which a protein transduction domain is fused to either an isolated

EC SOD protein or a protein exhibiting substantially equivalent physiological activity

to the EC SOD protein and having at least 60% sequence homology to amino acid

sequence of the EC SOD protein.

Claim 14 (Withdrawn): A method for preventing or treating skin diseases,

which comprises administering to a subject in need thereof an effective amount of one selected from the group consisting of a cell-transducing EC SOD fusion protein in which a protein transduction domain is fused to either an isolated EC SOD protein or a protein exhibiting substantially equivalent physiological activity to the EC SOD

EC SOD protein, and an expression vector comprising a polynucleotide encoding

protein and having at least 60% sequence homology to amino acid sequence of the

each of the proteins.

Claims 15-20 (Canceled).

Claim 21 (Canceled).

Claim 22 (Withdrawn): The pharmaceutical composition of claim 10, wherein the protein transduction domain is selected from the group consisting of a HIV-1 Tat transduction domain, an oligopeptide consisting of 5-12 arginine residues, an oligopeptide consisting of 5-12 lysine residues, a PEP-1 peptide, an ANTP protein and a VP22 protein.

Claim 23 (Withdrawn): The pharmaceutical composition of claim 10, wherein the skin diseases are selected from the group consisting of skin cancer, pigmentation disease, photoaging, dermatitis, psoriasis, atopy, urticaria and allergy.

Claim 24 (New): A method for treating skin disease, which comprises administering to a subject in need thereof an effective amount of a composition consisting of i) an isolated EC SOD protein or an expression vector comprising a

polynucleotide encoding the EC SOD protein; and ii) pharmaceutically acceptable carrier, wherein the EC SOD protein comprises an amino acid sequence of SEQ ID NO: 11, wherein the skin disease is dermatitis or psoriasis.